

# The Salt Route

EuroPython 2015



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# Cloud HR Service Delivery Solution

Helping the HR community increase productivity and employee satisfaction

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**Gartner** 2014  
**CoolVendor**



Digital HR Document  
Management



Employee Relationship  
Management

# TEAMS & STACK

- 2 Python/Django teams
- 1 Java/Scala team
- 1 EmberJS/Django (API) team
- 1 Devops team

- Saltstack configuration management
- Openstack cloud instances
- NewRelic alerting and monitoring

**TOOLS**

# SALTSTACK

Open Source  
Python

**WHY?**

# MAIN CONCEPTS

- 1.
- 2.
- 3.
- 4.

# MAIN CONCEPTS

1. **Master & Minions**

2.

3.

4.



# MAIN CONCEPTS

1. **Master & Minions**
2. **States**
- 3.
- 4.

# MAIN CONCEPTS

```
# salt/packages.sls
```

```
vim:
```

```
  pkg.installed
```

```
$ salt 'server1' state.sls packages
```

# MAIN CONCEPTS

1. **Master & Minions**
2. **States**
3. **Pillar**
- 4.

# MAIN CONCEPTS

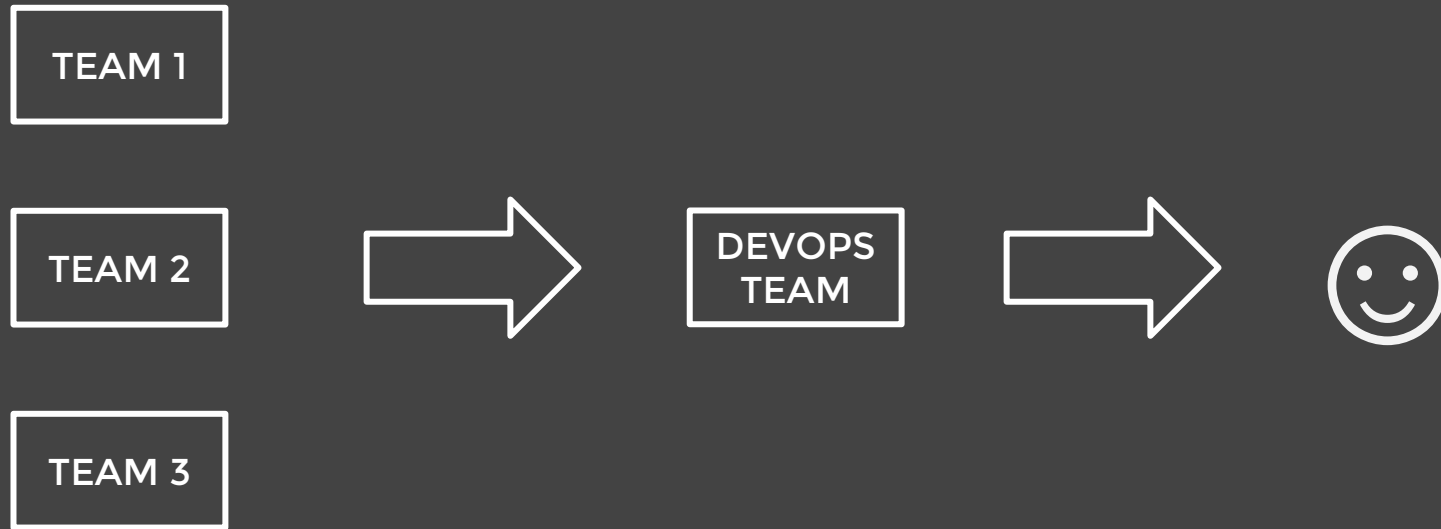
```
# pillar/users.sls  
  
users:  
  alice: 501  
  bob: 502
```

# MAIN CONCEPTS

1. **Master & Minions**
2. **States**
3. **Pillar**
4. **Grains**

# WORKFLOW

# WORKFLOW



**IT WORKS, BUT NOT  
FOR LONG...**



**BOTTLENECK**

**BOTTLENECK**

**COMPLEXITY**

**BOTTLENECK**

**COMPLEXITY**

**MONOLITHIC**

**“ YOU BUILD IT,  
YOU RUN IT ”**

*Werner Vogel, CTO at Amazon.com*

Split states by team

**USE THE FORMULA, LUKE**

**“Untested code is  
broken code”**

think about infrastructure as code

# TESTING

Jenkins + LXC

=



**Thank you!**

@pabluk